Quizlet

17 Multiple choice questions

1.	motors that convert electrical energy into mechanical energy, consisting of a rotor, field structure, commutator and
	brushes

- a. DC electrical motors
- b. electrical field
- c. generators
- d. field structure
- 2. the laminated soft-iron core around which conducting coils are wrapped in an electrical motor or generator
 - a. generators
 - b. armature
 - c. brushes
 - d. back emf
- 3. the conversion of mechanical energy into electrical energy
 - a. DC electrical motors
 - b. alternating current
 - c. electromagnetic induction
 - d. electrical field
- 4. conductors used to provide electrical contact to the moving parts of an electrical motor or generator, usually made of graphite
 - a. back emf
 - b. generators
 - c. armature
 - d. brushes
- 5. the induced emf that opposes the applied emf in an electrical circuit such as a motor
 - a. back emf
 - b. brushes
 - c. armature
 - d. generators

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circular currents that are induced in a solid conductor (such as a metal sheet) when magnetic flux	it is placed in a region of changing
a. direct current	
b. induced current	
c. eddy currents	
d. armature	
a law stating that the direction of the induced emf is such that the current it produc opposing the change that produced this emf	es creates a magnetic field
a. Lenz's law	
b. generators	
c. lines of force	
d. Faraday's law	
the magnetic field of motors and generators; can be made from permanent magne	ts or electromagnets
a. generators	
b. field structure	
c. armature	
d. induced current	
the region in which a charge experiences an electrical force	
a. field structure	
b. DC electrical motors	
c. electrical field	
d. direct current	
machines that convert electrical energy into mechanical energy, consisting of a roto brushes	or, field structure, slip rings and
a. galvanometers	
b. armature	
c. brushes	
d. generators	
sensitive current measuring devices that use the motor effect in their operation	
a. galvanometers	

b. armature c. generators

d. back emf

ysics 3 Motors and Generators – Part 1 Quizlet			9/01/2016
	12. a type of modern cook-top that uses current-carrying coils placed under metal saucepans to induce e heat metal pans for cooking		uce eddy currents to
	a.	galvanometers	
	b.	direct current	
	c.	induced current	
	d.	induction heater	

- 13. lines drawn to represent the direction and strength of electric, gravitational or magnetic fields
 - a. induced current
 - b. lines of force
 - c. generators
 - d. direct current
- 14. a current that flows in one direction only
 - a. induced current
 - b. eddy currents
 - c. alternating current
 - d. direct current
- 15. a type of current produced by the phenomenon of electromagnetic induction
 - a. induction heater
 - b. eddy currents
 - c. induced current
 - d. direct current
- 16. a law stating that the induced emf is proportional to the rate of change of magnetic flux through the circuit
 - a. Faraday's law
 - b. galvanometers
 - c. armature
 - d. Lenz's law
- 17. electrical current that reverses direction periodically
 - a. induced current
 - b. eddy currents
 - c. direct current
 - d. alternating current